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## METHOD AND APPARATUS FOR ELECTROPHYSIOLOGICAL TESTING IN AN IMPLANTABLE DEVICE

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### Abstract

An implantable cardiac stimulation device and associated method capable of delivering non-invasive programmed stimulation for electrophysiological testing in which the onset of the non-invasive programmed stimulation is triggered by a cardiac event, either a detected intrinsic event or a stimulated event, occurring in the heart chamber to be tested. When a non-invasive programmed stimulation command is received by the implanted device, it switches to a routine that allows transition to a non-invasive programmed stimulation from a standard operating mode, during a refractory period. The stimulation device also provides a recovery delay following the last pulse of a non-invasive programmed stimulation sequence. If no intrinsic activity is detected during the recovery delay, a refractory period is started following the expiration of the recovery delay. During this refractory period, a transition from the non-invasive programmed stimulation state machine back to the standard stimulation state machine is accomplished.